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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-78. (Cancelled)

- 79. (Currently Amended) A method of generating a tissue in a subject comprising administering to the subject a population of cells enriched for STRO-1^{bright} cells, or culture expanded colony-forming-unit-fibroblasts (CFU-F) derived therefrom, wherein such STRO-1^{bright} cells are mesenchymal precursor cells which comprise mesenchymal precursor cells which comprise mesenchymal precursor cells capable of giving rise to colony-forming unit fibroblasts (CFU-F) so as to generate the tissue in the subject.
- 80. (Cancelled).
- 81. (Currently Amended) The method of claim 80, wherein the mesenchymal tissue is smooth muscle, cardiac muscle, or endothelial, adipose, areolar, bone, cartilaginous, elastic, fibrous connective tissue or blood vessels tissue.
- 82. (Cancelled).
- 83. (Cancelled).
- 84. (Previously Presented) The method of claim 79, wherein the mesenchymal precursor cells carry at least one additional marker selected from the group of surface markers consisting of THY-1, VCAM-1, STRO-2, and CD146.

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- 85. (Previously Presented) The method of claim 84, wherein the mesenchymal precursor cells carry the markers STRO-1 and VCAM-1.
- 86. (Withdrawn) The method of claim 79, wherein said STRO-1^{bright} cells in the enriched population comprise an exogenous nucleic acid that expresses a therapeutic agent.
- 87. (Withdrawn) The method of claim 79, wherein the tissue is bone marrow.
- 88. (Withdrawn) The method of claim 87, wherein the population of cells is preadsorbed onto a ceramic vehicle that is precoated with fibronectin and is implanted to augment bone marrow transplantation.
- 89. (Withdrawn) The method of claim 88, which further comprises administering haemopoietic cells to the subject.
- 90. (Previously Presented) The method of claim 79, wherein the STRO-1 pright cells are negative for at least one marker selected from the group consisting of CBFA-1, collagen type II, PPAR γ 2, and glycophorin A.